

USSR / Farm Animals. Cattle.

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Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7356

Author : Gulyy, M. F.; Pshenichnyy, P. D.; Vasilenko, D. Ya.; Beletskaya, M. K.; Zhadan, A. B.; Kurbatov, V. I.; Os'makova, M. M.; Chizh-skaya, G. Ya.; Shevchenko, N. I.

Inst : Not given

Title : Ways of Raising the Milk's Fat Content in Cows

Orig Pub : Vestn. s.-kh. nauk, 1957, No 8, 41-50

Abstract : In repeated experiments it was established that when brewer's yeast (3.3 liters per head daily) was temporarily fed to cows, their milk's fat content became increased (by 0.4 percent on the average) for a comparatively long time. When they were fed bre-

Card 1/2

Card 2/2

45

GULYY, M.F.; MAZURENKO, N.P.; GONCHARENKAYA, T.S.; DAQTYAR', R.G.; GEMMA,  
O.I.; SLYUSARENKO, I.T.; ZAKHAROV, A.V.

Preparation from the lytic substaces of Bacillus mesentericus and  
its action on ascitic cancer in mice. Vrach. delo no.12:1347 D '57.

(MIRA 11:2)

1. Laboratoriya bioterapii raka (zav. - kand.med.nauk N.P.Mazurenko)  
Kiyevskogo instituta epidemiologii i mikrobiologii i otdel tkanevykh  
belkov (zav. - chlen-korrespondent AN USSR, prof. M.F.Gulyy) Insti-  
tuta biokhimii AN USSR.

(CANCER) (BACTERIA, ANEROBIC)

GULYY, M.F., akademik; PSHENICHNYI, P.D., akademik; VASILENKO, D.Ya.,  
~~sel'skokhozyaystvennykh nauk~~; ZHADAN, A.V.; CHIZHSKAYA, G.Ya.

Stimulating the formation of butterfat in cows by diversified  
rations containing brewer's yeast. Zhivotnovodstvo 19 no.12:34-36  
D '57. (MIRA 10:12)

1.Ukrainskaya akademiya sel'skokhozyaystvennykh nauk i Institut  
biokhimi AN USSR.

(Cows---Feeding and feeding stuffs)  
(Yeast)

DVORNIKOVA, P.D.; GULIY, M.F.; POPADYUK, O.Ya.

Phosphofructokinase from the muscles of rabbits [with summary in English]. Ukr.biokhim.zhur. 29 no.1:42-53 '57. (MLRA 10:5)

1. Institut biokhimi Akademii nauk Ukrain's'koi RSR, Kiy.  
(PHOSPHOFRUCTOKINASE) (MUSCLE)

GULYY, M.F.; DVORNIKOVA, P.D.; POPADYUK, Ye.Ya.

Increasing the aldolase activity of myogen A by various purified and crystalline proteins [with summary in English]. Ukr.biokhim. zhur. 29 no.2:152-165 '57. (MIRA 10:7)

1. Institut biokhimii Akademii nauk Ukrainiskoy SSR, Kiyev.  
(ALDOLASE) (MYOGEN)

GULYY, M.F.; SABALDYR', A.G.

Simple method for isolating and crystallizing muscle phosphorylase  
[with summary in English]. Ukr.biokhim.shur. 29 no.2:186-195 '57.  
(MIRA 10:7)

1. Institut biokhimii Akademii nauk Ukrainsoy SSR, Kiyev.  
((PHOSPHORYLASE) (CRYSTALLIZATION)

ALYU, M.F.

Tricarboxylic acid cycle and its physiological significance [with summary in English]. Ukr.biokhim. zhur. 29 no.3:314-328 '87.

(MLA 19:9)

1. Institut biokhimi akademii nauk Ukrainokoy SSR, Kiyov.  
(METABOLISM)

GULIY, M.F.; DVORNIKOVA, P.D.; POPADYUK, O.Ya.

Mature of the activation of the enzymic action of crystalline  
muscle phosphofructokinase by myogen A [with summary in English].  
Ukr. biokhim.zhur. 29 no.4:392-399 '57. (MIRA 11:1)

1. Institut biokhimii AN URSR, Kiy.  
(MYOGEN) (PHOSPHOFRUCTOKINASE)



GULY<sup>Y</sup>, Nikolai F.

"The Role of the Insulin in the Citrate Cycle of Animal Tissue."

Inst. of Biochem. Acad. Sci. Ukr SSR, Kiev

paper presented at the 4th Intl. Congress of Biochemistry, Vienna, 1-6 Sep 78.

DVORNIKOVA, P.D. [DVORNYKOVA, P.D.], GULYY, M.F. [GULYI, M.F.], POPADYUK,  
Ya.Ya. [POPADIUK, O.IA], MARTHENKO, P.P.

Phosphofructokinase and other crystalline proteins from cat  
muscles [with summary in English]. Urk.biokhim.zhur. 30 no.2:187-199  
'58 (MIRA 11:6)

1. Institut biokhimii AN URSR, Kiyv.  
(PHOSPHORFUCTOKINASE)  
(PROTEINS)

GULYY, Maksim Fedorovich [Hulyi, M.F.]; CHAGOVETS', R.V. [Chahovets', R.V.], otv. red.; BRAGINSKIY, L.P. [Brahins'kyi, L.P.], red. izd-va; MATVIICHUK, O.O., tekhn. red.

[Chemical activity of the biological oxidation and ~~synthesis~~ of fats and the problem of higher milk-fat content] Khimichno biologichnoho oksyleniia i ~~systema~~ ~~shyriiv~~ ta problema pidvyshchennia zhyrnomolochnosti. Kyiv, Vyd-vo Akad. nauk URSR, 1959. 118 p. (MIRA 14:8)

1. Chlen-korrespondent AN USSR (for Chagovets').  
(Oxidation, Physiological) (Butterfat)

KOROTKORUCHKO, Vasilii Pavlovich; GULYY, M.F., akademik, otv.red.;  
GRUDZINSKAYA, O.S., red.izd-va; RAKHLINA, N.P., tekhn.red.

[Purine metabolism in tissues of healthy and tumorous animals]  
Obmen purinov v tkaniakh zdorovykh i porazhennykh opukholiami  
zhivotnykh. Kiev, Izd-vo Akad.nauk USSR, 1959. 227 p. (MIRA 12:5)

1. AN USSR (for Gulyy).  
(PURINE METABOLISM)

GULIY, M.F. [Hulyi, M.F.]

Great achievements. Nauka i zhyttia 9 no.10:4 0 '59.  
(MIRA 13:2)

1. Vitse-president AN USSR.

(Russia--Foreign Relations--United States)

(United States--Foreign Relations--Russia)

GULYY, M.F. [Hulyi, M.F.]

Modified tricarboxylic acid or glyoxylate cycle and its physiological significance. Ukr.biokhim.zhur. 31 no.3:444-466 '59.

(MIRA 12:9)

1. Institute of Biochemistry of the Academy of Sciences of the U.S.S.R., Kiev.

(METABOLISM)

GULYY, M.F. [Hulyi, M.F.]

Enzymes and ways of formation of alphaglycerophosphoric acid in animal tissues; a survey. Ukr.biokhim.zhur. 32 no.2:291-318 '60.  
(MIRA 13:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R.

(GLYCEROPHOSPHORIC ACID)

(ENZYMES)

DVORNIKOVA, P.D.; GULYY, M.F. [Hulyi, M.F.]; FEDORCHENKO, Ye.Ya. [Fedorchenko, O.Ya.]; MARTYENKO, F.P.

Method of isolation and some properties of crystalline muscle  
phosphopyruvic kinase. Ukr. biokhim. zhur. 32 no.6:783-792 '60.  
(MIRA 14:1)

1. Institute of Biochemistry of the Academy of Sciences of the  
Ukrainian S.S.R., Kiev.  
(PHOSPHOPYRUVIC KINASE)



PALLADIN, A.V., akademik; FEDORCHENKO, I.M., akademik; GULYY, M.F., akademik; BAKULIN, D.I.; MEL'NIKOV, N.P., kand.tekhn.nauk; OKERBLOM, N.O., prof., doktor tekhn.nauk; LYUBAVSKIY, K.V., prof., doktor tekhn.nauk, laureat Stalinskikh premiy; PORTNOY, N.D., kand.tekhn.nauk; TSYBAN', N.G.; KULIKOV, M.S., dotsent; AGRONOMOV, S.N., inzh.; POLYAKOV, V.A., inzh.; SHERSTYUK, V.N., inzh.

Congratulations on the publication of the issue no.100 of the "Avtomaticheskaya Svarka" journal. Avtom.svar. 14 no.7: 3-8 J1 '61. (MIRA 14:7)

1. Prezident AN USSR (for Palladin).
  2. AN USSR, glavnyy uchenyy sekretar' AN USSR (for Fedorchenko).
  3. AN USSR, predsedatel' redaktsionno-izdatel'skogo soveta AN USSR (for Gulyy).
  4. Uchenyy sekretar' AN USSR (for Bakulin).
  5. Direktor instituta "Proyektstal'konstruktsiya" (for Mel'nikov).
  6. Predsedatel seksii svarochnogo proizvodstva Tekhniko-ekonomicheskogo soveta Leningradskogo sovnarkhoza (for Okerblom).
  7. Glavnyy svarshchik Uralvagonzavoda (for Portnoy).
  8. Glavnyy inzh. zavoda im. Nosenko (for TSYBAN').
  9. Dal'nevostochnyy politekhnicheskyy institut im. V.V.Kuybysheva (for Kulikov).
  10. Dal'zavod (for Agronomov, Polyakov).
  11. Dal'nevostochnyy nauchno-issledovatel'skiy institut po stroitel'stvu (for Sherstyuk).
- (Electric welding- Periodicals)

GULYY, M.F. [Hulyi, M.F.] (g.Kiyov)

Biological synthesis of protein. Ukr. biokhim. zhur. 33 no.6:  
876-922 '61. (MIRA 14:12)

(PROTEIN METABOLISM)

GULYY, M. F., DEGTYAR, R. G., and MATSUKA G. KH. (USSR)

"The Mechanism of Certain Physiological Functions of Insulin."

Report presented at the 5th International Biochemistry Congress,  
Moscow, 10-16 Aug 1961

GULYY, Maksim Fedotovich; CHAGOVETS, R.V., otv. red.; BRAGINSKIY, L.P.,  
red. izd-va; SKLIYAROVA, V.Ye., tekhn. red.

[Biochemistry of fat metabolism; an outline] Biokhimiia zhirovogo  
obmena; ocherki. Kiev, Izd-vo Akad. nauk USSR, 1961. 264 p.  
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1. Chlen-korrespondent AN USSR (for Gulyy).  
(FAT METABOLISM)

GULYY, M.F., akademik; DEGTYAR', R.; MATSUKA, G.Kh.

Mechanism of some insulin functions in metabolism. Dokl. AN SSSR  
140 no.6:1448-1451 O '61. (MIRA 14:11)

1. AN USSR (for Gulyy).  
(INSULIN) (METABOLISM, DISORDERS OF)

GULYY, M.F., akademik, red.; KAVETSKIY, R.Ye., akademik, red.;  
OSTRYANIN, D.F., red.; DZYUBKO, I.S., red.; SHUGAYLIN, A.V.,  
doktor filos. nauk, red.; YEFIMOVA, M.I., tekhn. red.

[Philosophical problems of contemporary biology; proceedings]  
Filosofskie voprosy sovremennoi biologii; materialy. Kiev,  
Izd-vo Akad. nauk USSR, 1962. 491 p. (MIRA 15:4)

1. Ukrainskoye soveshchaniye po filosofskim voprosam biologii,  
Kiev, 1960. 2. Akademiya nauk USSR (for Gulyy, Kavetskiy).
3. Chlen-korrespondent Akademii nauk USSR (for Ostryanin).
4. Zamestitel' ministra vysshego i srednego spetsial'nogo  
obrazovaniya USSR (for Dzyubko).  
(BIOLOGY--PHILOSOPHY)

GULYY, M.F., akademik; DECTYAR', R.G.

Purification and crystallization of glucose oxidase from the  
fungus *Penicillium vitale* pidoplitchco Bilai. Dokl.AN SSSR 145  
no.1:209-211 J1 '62. (MIRA 15:7)

1. Institut biokhimii AN USSR. 2. Akademiya nauk USSR (for Gulyy).  
(GLUCOSE OXIDASE) (PENICILLIUM)

DVORNIKOVA, P.D.; GULYY, M.F. [Hulyi, M.F.]; PECHENOVA, T.N. [Pechenova, T.M.];  
MARTYNNENKO, F.P.

Values of the molecular weight of a mixture of crystalline  
myogen A and dehydrogenase of d-glyceraldehyde-3-phosphate  
from the muscles of a rabbit. Ukr. biokhim. zhur. 34 no.3:  
327-337 '62. (MIRA 18:5)

1. Institut biokhimi AN UkrSSR, Kiyev.



GULYY, M.F., akademik; PECHENOVA, T.N.; DVORNIKOVA, P.D.

Formation of acetyl phosphate in animal liver homogenates.  
Dokl. AN SSSR 146 no.4:933-936 0 '62. (MIRA 15:11)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR  
(for Gulyy). (LIVER EXTRACT) (PHOSPHATES)

GULYY, Maksim Fedotovitch; BELITSER, V.A., akademik, otv. red.;  
YANKOVSKAYA, Z.B., red.; KADASHEVICH, O.A., tekhn. red.

[Biosynthesis of protein] Biosintez belka. Kiev, Izd-vo  
Akad. nauk USSR, 1963. 202 p. (MIRA 16:5)

1. Akademiya nauk Ukr.SSR (for Belitser).  
(Proteins) (Biosynthesis)

GULYI, M.L. [Gulyi, M. L.], MURRAY, R.L. [Murray, R.L.],

Industrial method of purification, the crystallization, and the  
properties of glucose oxidase from the fungus *Penicillium vitale*  
Pidepl. et Bilai. Ukr.biohim.zhur. 34 no.1:137-145 '62.

(MIRA 17:5)

1. Institut biohimii AN UkrSSR, Kiev.

GULYY, M.F.

Ribonucleic acid as an intermediary and its role as a matrix in protein biosynthesis. Ukr.biokhim.zhur. 34 no.3:758-790 '62.

(MIRA 16:4)

1. Institut' biokhimi AN UkrSSR, Kiyev.

(NUCLEIC ACIDS)

(PROTEIN METABOLISM)

GULYY, M.F. [Hulyi, M.F.]; PECHENOVA, T.N. [Pechonova, T.M.];  
DVORNIKOVA, P.D. [Dvornykova, P.D.]

Formation of acetyl phosphate in liver homogenates of animals.  
Ukr.biokhim.zhur. 34 no.6:846-852 '62. (MIRA 16:4)

1. Institute of Biochemistry of the Academy of Sciences of the  
Ukrainian S.S.R., Kiev.  
(LIVER) (ACETYL PHOSPHATE)

GULYY, M.F. [Hulyi, M.F.]; DVORNIKOVA, P.D.; FEDORCHENKO, Ye.Ya  
[Fedorchenko, O.IA.]; PECHENOVA, T.N. [Pechenova, T.M.]

Mechanism of enzyme activation with the interaction of purified proteins. Ukr. biokhim. zhur. 34 no.2:187-198 '62.  
(MIRA 16:11)

1. Institute of Biochemistry of the Academy of Sciences  
of the Ukrainian S.S.R., Kiev.

\*

LITVINENKO, L.T. [Lytynenko, L.T.]; GULYY, M.F. [Hulyi, M.F.]; POLIKARPOVA,  
N.I.

Effect of modifying factors on thiol groups and the biological properties of proteins. Ukr. biokhim. zhur. 35 no.4:483-495 '63.  
(MIRA 17:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev.

PECHENOVA, T.N. [Pechonova, T.M.]; GULYY, M.F. [Hulyi, M.F.]

Acetyl phosphate conversion in the animal liver. Ukr. biokhim. zhur.  
35 no.4:549-559 '63. (MIRA 17:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev.



GULYY, M.F., akademik; PECHENOVA, T.N.; MATUSEVICH, L.I.

Mechanisms and enzymes responsible for acetyl phosphate formation  
during citric acid transformation in animal tissues. Dokl. AN  
SSSR 159 no.6:1415-1418 D '64 (MIRA 18:1)

1. Institut biokhimi AN UkrSSR. 2. AN UkrSSR (for Gulyy).

GULYY, Maksim Fedotovich; BILAY, Vera Iosifovna; PIDOPLICHEKO,  
Nikolay Makarovich; DEGTYAR', Rita Grigor'yevna;  
NIKOL'SKAYA, Yelena Alekseyevna

[Glucose oxidase enzyme and its use] Ferment gliukozo-  
oksidaza i ego primeneniye. Kiev, Naukova dumka, 1964.  
142 p. (MIRA 18:2)

GULYY, M.F., akademik, otv. red.; BELITSER, V.A., red.;  
GERSHENZON, S.M., red.; GOL'DSHTEYN, B.I., red.;  
VIZIR, P.Ye., red.; TROITSKIY, G.V., red.; MARTYNENKO,  
F.P., red.; YANKOVSKAYA, Z.B., red.

[Proteins in medicine and the national economy; blood  
proteins, glucose oxidase] Belki v meditsine i narod-  
nom khoziaistve; belki krovi, gliukozooksidaza. Kiev,  
Naukova dumka, 1965. 247 p. (MIRA 18:5)

1. Simpozium po voprosam proizvodstva i primeneniya  
glyukozooksidazy. Kiev, 1964. 2. Krymskiy meditsinskiy  
institut, Simferopol' (for Troitskiy). 3. Institut  
biokhimii AN Ukr.SSR, Kiev (for Gulyy).

GURYY, M.F. [Guryi, M.F.], PLOCHENKOVA, T.T. [Plochenova, T.T.], LAM MACH,  
L.T. [Matusevych, L.I.]

Mechanism and enzymes of the conversion of citric acid into acyl  
phosphates in animal tissues. Ukr. biokhim. zhur. 37 no.1:56-60  
1965. (MIRA 18:5)

1. Institute of Biochemistry of the Academy of Sciences of the  
Ukrainian S.S.R., Kiev.

DEKAR', R.G. [Dentier, R.H.]; GULYI, A.P. [Gulya, A.P.]; MAIZEL', Y.A.  
[Maizel', E.B.]

Some properties of crystalline and purified monocrystalline glucose  
oxidase preparations from *Penicillium vitale* Pidopl. et Bilal.  
Ukr. biokhim. zhur. 37 no.2:169-176 '65. (MIRA 18:6)

17. Institut biokhimii AN UkrSSR, Kyev, i Institut eksperimental'noy  
meditsiny AMN SSSR, Leningrad.

GULYY, M.F., akademik; PRUCHANOVA, I.M., MATSEVICH, L.I.

Isolation of acetyl phosphate formed in the liver homogenates  
following transformation of citric acid. Dokl. AN SSSR 164  
no.3:686-687 S '65. (MIRA 18:9)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR (for Gulyy).

GULYY, N.P., akademik. PNEPCHENY, Y.Ya.; IFIMENKO, I.S.; KURKOVA, I.S.;  
CHEVPILO, I.A.; TRONINA, E.V.; ZHURAVLIY, D.I.; FOMIN, G.Pa.

Activation of amino acids with the formation of arylacyl-  
phosphates in animal tissues. Dokl. AN SSSR 166 no. 1:227-230  
Ja '66. (MIRA 19:2)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR (for Gulyy).  
Submitted July 2, 1965.

GULYY, P.

Speed is the motto of mechanization promoters. Mast.ugl. 9 no.6:4  
Je '60. (MIRA 13:7)

(Coal mining machinery)



GULYY, P.

In a new electoral district. Sov. shakht. 11 no.3:10-11 Mr  
'62. (MIRA 15:5)  
(Kuznetsk Basin--Coal mines and mining)

GULYY, P.

Cutter loaders gather speed. Sov. shakht. 11 no.9:11-12 S  
'62. (MIRA 15:9)

(Coal mining machinery)

GULYY, V.K. Cand Med Sci -- (dis:) ~~Application of the drug~~ "Phtivazide<sup>form</sup>  
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16 pp 20 cm. (Khar'kov Med Inst), 100 copies. (KL, 10-57, 104)

-21-

GULYY, Ye.A.; LOSHKAREV, P.M.

Quantitative determination of lanatosides A, B, C, and D  
in Digitalis lanata. Med. prom. 16 no.1:41-45 Ju '62.

(MIRA 15:3)

1. Vsesoyuznyy institut lekarstvennykh i aromaticeskikh  
rasteniy.

(LANATOSIDES)

(DIGITALIS)

GRYZLOV, V.P.; GULYY, Ye.V.

Content of lanatosides ABC in Digitalis lanata depending on  
its nutrition. Med. prom. 16 no.2:8-11 F '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh  
i aromaticeskikh rasteniy.

(DIGITALIS)

(LANATOSIDE)

BERKELIYEV, M.; MASHRYKOV, K.K., doktor geol.-miner. nauk, red.;  
MESKUTOV, V., red.; GULZHAYEV, E., red.; KHARITONOVA, Ye.I.,  
red.; STREL'TSOV, E., tekhn. red.

[Russian-Turkmen dictionary of geological terms] Russko-  
turkmenskii slovar' geologicheskikh terminov. Pod red. K.K.  
Mashrykova i V.Meskutova. Ashkhabad, Izd-vo Akad. nauk  
Turkmensoi SSR, 1962. 226 p. (MIRA 16:1) ,  
(Russian language--Dictionaries--Turkmen)  
(Geology--Dictionaries)

GULZOW, M., dr. (Rostock)

Clinical aspects of pancreatic diseases. Orv.hetil. 101 no.47:1657-1664 20 N°60.

(PANCREAS dis)

ACC NR: AP7001837

(A)

SOURCE CODE: UR/0135/66/000/012/0009/0011

AUTHOR: Alekin, L. Ye. (Candidate of technical sciences); Zorin, Yu. N. (Candidate of technical sciences); Razzhivin, V. N. (Engineer); Guma, V. V. (Engineer); Popenko, V.S. (Engineer)

ORG: none

TITLE: Methods of determining the regulation characteristics of a low-amperage arc in argon

SOURCE: Svarochnoye proizvodstvo, no. 12, 1966, 9-11

TOPIC TAGS: motion picture camera, current source, welding inspection, arc welding, welding technology / Kiev 16S-2 motion picture camera, IP-50 current source

ABSTRACT: At present argon-arc welding by means of automatic welding machines (AWM) with a nonconsumable electrode is widely employed to weld parts of stainless steel 0.2-1.0 mm thick in argon with the aid of positive-polarity direct current with an 0.25-3.0 mm long arc. The intensity of the welding current ranges from 1.0 to 70 a. The ultimate purpose of regulation is to produce a welded joint of high quality. But since the AWM affects directly not the

Card 1/4

UDC: 621.791.75.01



ACC NR: AP7001837

weld but the arc, this regulation can be accomplished only if the regulation characteristic, i.e., the dependence of voltage on arc length, is known, since the AWM reacts directly not to the length but to the voltage of the arc. Normally the regulation characteristic is determined by static tests or from a recalculation of volt-ampere characteristics of the arc, but this does not reveal all the features of the regulation characteristic, particularly for the welding of parts 0.2-0.5 mm thick with the aid of a short arc with currents of less than 30 a. Of special practical interest in this connection is the part of the regulation characteristic corresponding to arcs of less than 0.5 mm in length; if in this case the voltage is either virtually independent of the arc length or increases with decreasing arc length, then even a highly sensitive feedback-type AWM cannot assure the regulation of arc length with respect to voltage. To eliminate this difficulty, the authors developed a new method of determining the regulation characteristic, based on the following considerations: Since the regulation characteristic represents the dependence of  $U_0$  on  $L_0$ , a continuous curve can be plotted during continuous movement of the electrode. At the same time, in order to gain the correct idea of the arc length, the position of the arc column must be checked in two mutually perpendicular planes and the plunge of the arc into the metal prevented. This new method provides for the simultaneous examination of the arc from both sides by means of two Kiev 16S-2 motion picture cameras (16 frames per second) positioned at right angles to each other so that the position of the arc column and the length of the arc can be accurately determined. A corresponding experimental setup was con-

Card 2/4

ACC NR: AP7001837

structed (Fig. 1): its principal components are: welding torch 1, mechanism 2 for vertical movement of welding torch, at the rate of 0.2-2.0 mm/sec, rotator 3, chuck 4 for attachment of welding heat, and table 5.

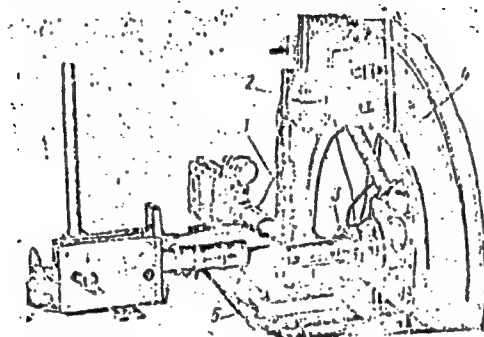


Fig. 1. Experimental setup

The double filming of the welding operation is synchronized with oscillographic recording of current and voltage by means of a time mark whose design and switching circuit are shown in Fig. 2: the connection and disconnection of the electrical circuit are assured by the closing of contacts 2 by shutter 1 of the motion picture camera, represented by a metal disk with a flare

Card 3/4

ACC NR: AP7001837

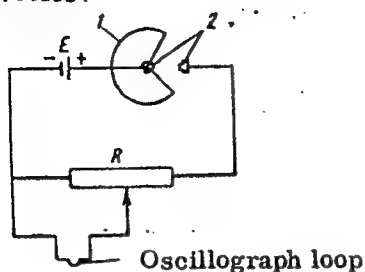


Fig. 2. Design and switching circuit of time mark

angle of  $110^\circ$ . Argon consumption was 140-160 liters/hr. Regulation characteristics were plotted for currents of from 0.7 to 50 a. Findings: processing of the kinograms showed that in the presence of short arcs the arc column is rarely displaced from its axis and the resulting deviation is sufficiently stable in time and readily fixed by means of the kinogram. In subsequent experiments an IP-50 current source was employed to reduce to  $\sim 3\%$  the current deviation accompanying the change in arc length from 0.1 to 5.0 mm. It was found that when the arc length is sufficiently short the linear relationship between voltage and arc length no longer applies and the regulation characteristic becomes nonlinear. This nonlinearity clearly manifests itself when the arc length is 0.5 mm and shorter. Orig. art. has: 4 figures.

SUB CODE: 13,  $\mathbb{M}$  SUBM DATE: none/ ORIG REF: 002

Card 4/4

L 31322-66 EWT(m)/EWA(d)/EWP(t) IJP(c) JD

ACC NR: AP5026291

SOURCE CODE: UR/0125/65/000/010/0038/0040

AUTHOR: Alekin, L. Ye. (Candidate of technical sciences); Il'yenko, N. A. (Engineer); Guma, V. V. (Engineer)

ORG: [Alekin, Il'yenko] MTU im. Bauman

TITLE: Pressure of low-amperage argon arc on the molten pool

SOURCE: Avtomaticheskaya svarka, no. 10, 1965, 38-40

TOPIC TAGS: arc welding, low amperage welding arc, welding technology, welding electrode, molten metal

ABSTRACT: The welding arc exerts a definite mechanical effect, termed arc pressure, on the pool of molten metal. During welding with a nonconsumable electrode, this effect is created chiefly by the pressure of the arc's plasma jet and conditioned by the pinch effect. Since during welding, in an overwhelming majority of cases, the electrode is positioned at right angles to the weldment, the molten pool is acted upon not only by arc pressure but also by the electromagnetic force of the welding circuit. In this connection, the authors designed a special setup for measuring the pressure of low-amperage argon arc on the molten pool during welding with a nonconsumable electrode (see Fig. 1 of the Enclosure). Its principal feature is mobile rod 5, with plate 6 of OKh13N9T stainless steel attached to one end of the rod and counter.

UNC: 621.791.856

1/3

L 31322-66  
ACC NR: AP5026291

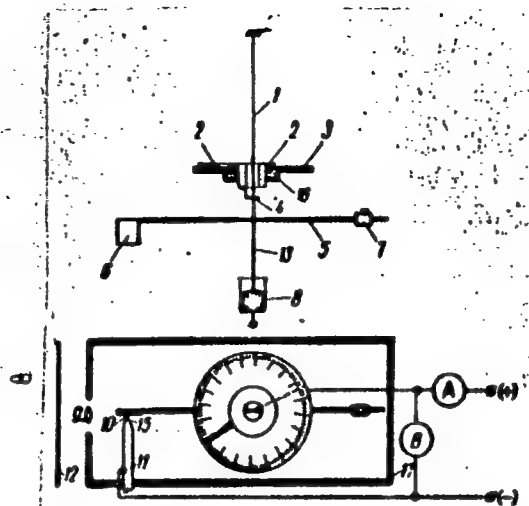


Fig. 1. Setup for determining arc pressure  
3 - scale; 8 - mercury contact; 10 - arc; 11 - welding  
torch; 16 - fixed base; 17 - protective casing; for the  
other designations consult the text

2/3

11.31322-66  
ACC NR: AP5026291

weight 7 attached to its other end. Soldered to rod 5 is copper rod 13, with one end immersed in a mercury bath and with thin silk thread 1 tied to the other end. In this position, mobile rod 5 is in a state of equilibrium. Arc pressure is balanced by means of helical spring 4, one end of which is affixed to rod 13 and the other end, to bushing 2 with a pointer. The arc burns between plate 6 and electrode 15. By means of lens 9 the arc is projected onto screen 12 with tenfold magnification. The experiment is performed as follows: Gas is turned on, thus deviating the mobile part of the device. This deviation is compensated by the bushing with helical spring 4. Bushing 2 rotates until the necessary distance is established between electrode 15 and plate 6. Then the pointer of the device indicates the gas pressure (in mg). The arc ignites. Its pressure is balanced by further rotation of bushing 2 until the necessary arc length is obtained. The difference in readings gives the arc pressure. The length of the arc is determined from its projection onto screen 12. In this way, it was determined that during welding with a 2-13 a argon arc by means of a tungsten electrode (1.5 mm diameter) the arc pressure on the molten pool varies from 0.2 to 10.5 mg and is directly proportional to the square of current intensity. As the arc length increases, the arc pressure decreases insignificantly. A change of 50% in the flow rate of protective gas does not appreciably affect the arc pressure. Orig. art. has: 3 figures.

SUB CODE: 11,13/ SUBM DATE: 19Nov64/ ORIG REF: 005/ OTH REF: 003

Card 3/3 20

L 9536-66 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) MJT/JD  
ACC NR: AP5026291

SOURCE CODE: UR/0125/65/000/010/0038/0040

AUTHOR: Alekin, L. Ye. (Candidate of technical sciences); Il'yenko, N. A. (Engineer);  
Guma, V. V. (Engineer)

ORG: [Alekin, Il'yenko] MVTU im. Bauman

TITLE: Pressure of low-amperage argon arc on the molten pool

SOURCE: Avtomaticheskaya svarka, no. 10, 1965, 38-40

TOPIC TAGS: arc welding, low amperage welding arc, welding technology, welding electrode, molten metal

ABSTRACT: The welding arc exerts a definite mechanical effect, termed arc pressure, on the pool of molten metal. During welding with a nonconsumable electrode, this effect is created chiefly by the pressure of the arc's plasma jet and conditioned by the pinch effect. Since during welding, in an overwhelming majority of cases, the electrode is positioned at right angles to the weldment, the molten pool is acted upon not only by arc pressure but also by the electromagnetic force of the welding circuit. In this connection, the authors designed a special setup for measuring the pressure of low-amperage argon arc on the molten pool during welding with a nonconsumable electrode (see Fig. 1 of the Enclosure). Its principal feature is mobile rod 5, with plate 6 of  $\Phi$ Kh18N9T stainless steel attached to one end of the rod and counter-

Card 1/3

UDC: 621.791.856

I. 9536-66

ACC NR: AP5026291

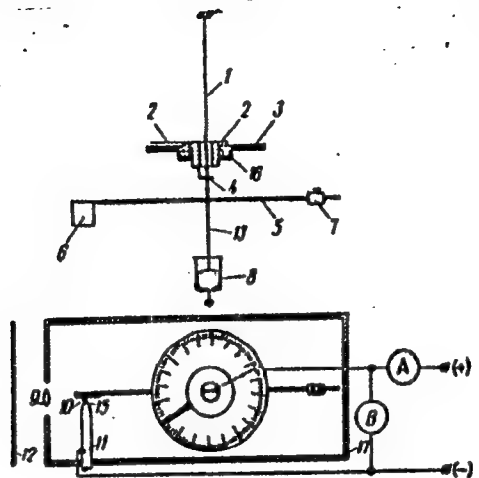


Fig. 1. Setup for determining arc pressure

3 - scale; 8 - mercury contact; 10 - arc; 11 - welding torch; 16 - fixed base; 17 - protective casing; for the other designations consult the text

Card 2/3



L 9536-66

ACC NR: AP5026291

weight 7 attached to its other end. Soldered to rod 5 is copper rod 13, with one end immersed in a mercury bath and with thin silk thread 1 tied to the other end. In this position, mobile rod 5 is in a state of equilibrium. Arc pressure is balanced by means of helical spring 4, one end of which is affixed to rod 13 and the other end, to bushing 2 with a pointer. The arc burns between plate 6 and electrode 15. By means of lens 9 the arc is projected onto screen 12 with tenfold magnification. The experiment is performed as follows: Gas is turned on, thus deviating the mobile part of the device. This deviation is compensated by the bushing with helical spring 4. Bushing 2 rotates until the necessary distance is established between electrode 15 and plate 6. Then the pointer of the device indicates the gas pressure (in mg). The arc ignites. Its pressure is balanced by further rotation of bushing 2 until the necessary arc length is obtained. The difference in readings gives the arc pressure. The length of the arc is determined from its projection onto screen 12. In this way, it was determined that during welding with a 2-13 a argon arc by means of a tungsten electrode (1.5 mm diameter) the arc pressure on the molten pool varies from 0.2 to 10.5 mg and is directly proportional to the square of current intensity. As the arc length increases, the arc pressure decreases insignificantly. A change of 50% in the flow rate of protective gas does not appreciably affect the arc pressure. Orig. art. has: 3 figures.

SUB CODE: 11,13/ SUBM DATE: 19Nov64/ ORIG REF: 005/ OTH REF: 003

*Debr*  
Card 3/3

L 20544-66 EWT(m)/EWP(v)/T/EWP(t)/EWP(k) JD/HM  
ACC NR: AP5023077 SOURCE CODE: UR/0125/65/000/009/0005/0007

AUTHOR: Alekin, L.Ye. (Candidate of technical sciences); Zorin, Yu.N. (Candidate of technical sciences); Razzhivin, V.N. (Engineer); Guma, V.V. (Engineer) (Moscow); Popenko, V.S. (Engineer) (Moscow) 57  
B

ORG: none

TITLE: Determination of the volt ampere characteristics of a low-current welding arc 18

SOURCE: Avtomaticheskaya svarka, no. 9, 1965, 5-7

TOPIC TAGS: volt ampere characteristic, arc welding, welding, welding electrode, arc discharge, arc property

ABSTRACT: A method of determining volt ampere characteristics of a low-current arc in argon is described. It is shown that the error in arc column and length determinations can be eliminated by photographing the arc with two cameras arranged at right angles to each other. A clear picture of the entire area including the electrode, weld, cathode spot, anode spot, and column can be obtained with the aid of additional rings and light filters. The true distance between the tip of the electrode and the weld in the presence of a flash arc is determined within an accuracy of 0.01 mm by taking into account the thermal expansion of the electrode. The arc is ignited on a special pipe with escalated ribs fusable in the molten pool in order to eliminate

UDC: 621.791.856 2

Card 1/2

L 20544-66

ACC NR: AP5023077

measurement errors due to sinking of the arc in the base metal and to obtain a molten pool at any welding current. This method was used in determining the static volt ampere characteristic and the relationship between the arc current and gap in argon welding with a nonfusible tungsten electrode. Orig. art. has: 4 figures.

SUB CODE: 13,09

SUBM DATE: 22Jun64

ORIG REF: 004

Card

2/2 *LJC*

ACC NR: AM6029769

Monograph

UR/

Yurchenko, Yu. F.; Guma, V. V.; Roshchin, V. V.; Grinenko, V. I.; Popenko, V. S.; Kurkumeli, A. A.

Fitting and welding of corrosion-resisting steel piping in the atomic industry (Montazh i svarka truboprovodov iz korrozionnostoykikh staley v atomnoy promyshlennosti) Moscow, Atomizdat, 1966. 248 p. illus., biblio. 2,800 copies printed.

TOPIC TAGS: pipeline, welding, automatic welding, welding technology

PURPOSE AND COVERAGE: The authors discuss current practices in assembling and welding pipelines from corrosion-resistant steels, designated for use in aggressive media in atomic industry. Existing techniques are evaluated and recommendations are made on the selection of appropriate methods, whose technical and economic indices are cited. Welding operations and equipment, and assembly and welding machinery are described; automatic welding and the complete automation of assembly operations are emphasized. The book is intended for engineers and technicians and all specialists working in design and assembly shops of plants and research institutes specializing in the welding of corrosion-resistant steels. There are 108 references of which 56 are Soviet.

Card 1/2

UDC: 621.643.411.4:669.14.018.6

ACC NR: AM6029769

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617320020-0"

TABLE OF CONTENTS [abridged]:

- Foreword -- 3
- Ch. I. General requirements for pipelines made from corrosion-resistant steels -- 7
- Ch. II. Basic materials and welding materials used in the production of pipelines -- 20
- Ch. III. Pipeline welding -- 20
- Ch. IV. Preparing pipelines for welding -- 104
- Ch. V. Welding equipment -- 129
- Ch. VI. Organization of pipe-assembly operations -- 189
- Ch. VII. Quality control of welded pipe joints -- 202
- Ch. VIII. Safety measures -- 236

SUB CODE: 13/ SUBM DATE: 20Apr66/ ORIG REF: 081/ OTH REF: 027

Card 2/2

GUMANYUK, Mstislav Nestorovich, kand. tekhn.nauk; YANCHUK, G.M.,  
kand. tekhn. nauk, retsenzent

[Magnetoelastic transducers in automatic control] Magnito-  
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Studying the possibility of producing and using certain salts  
of aromatic sulfonic acids. Trudy LIEI no. 46:92-95 '63.  
(MIRA 17:6)

GUNLAW, E.

Fuel Abst.

Vol. 15 No. 4

Apr. 1954

Gaseous Fuels: Properties  
and Treatment

✓ 2860. COMPUTING NATURAL GAS PIPE LINES. ✓  
Gunlaw, E. (Acta tech.  
1952, vol. 5, 397-404). Compares tests on natural gas and coke oven  
gas lines. Discusses Nikuradse's equations and splits up the flow equation  
into two factors. B.T.R.

① *Fuels*  
*Math*

9-2 *8084*

GURAN, I.

Guran, I. "Das photometrische Doppelsternsystem CD Vulpeculae, Budapest, Ungarische Akademie der Wissenschaften, 1951." p. 13 (Mitteilungen der Sternwarte der Ungarischen Akademie der Wissenschaften, Nr. 24) (The photometric double star system CD Vulpeculae. Text in German)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.



GUMAN, I.

VZ Cancri, ein RR Lyrae-Stern mit sehr kurzer sekundärer Periode. Budapest, 1955. 16 p. (Budapest. Csillagvizsgálóintézet. Mitteilungen, nr. 36) VZ  
Cancer, an RR Lyra star with a very short secondary period. In German)

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Calculation of pressure losses of highly viscous oils in pipelines. p. 652.  
Vol 10, no. 12, Dec. 1955. BANYASZATI LAPOK. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

GUMAN, J.

"Utilization of asbestos-concrete pipes in the municipal gas-distribution network; also, remarks by K. Somhegyi and L. Dobo."

p. 405 (Energia Es Atomtechnika) Vol. 10, no. 8/10, Dec. 1957  
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

Guman, J.; Bakos, M.

Determination of the smallest velocity necessary for fluidization. p.309

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Budapest, Hungary. Vol.14, no.8, August 1959

Monthly List of East European Accessions (KEAI) LC, Vol8, no.11  
November 1959  
Uncl.

GUMAN, V.N.; SLIV, L.A.; SOGOMONOVA, G.A.

Pairing forces and pair correlations in the  $Pb^{206}$  nucleus.  
Zhur. eksp. i teor. fiz. 40 no.1:341-351 Ja '61.

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1. Leningradskiy fiziko-tehnicheskii institut AN SSSR.  
(Lead—Isotopes)

GUMAN, V.N.

Calculating the surface interaction for nuclei with filled shells  
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800-805 S '61. (MIRA 14:10)

1. Leningraskiy fiziko-tekhnicheskii institut AN SSSR.  
(Nuceli, Atomic)

BIRBRAIR, B.L.; GUMAN, V.N.

Excitation spectra of  $Ti^{208}$  and  $Bi^{208}$  nuclei. IAd. fiz. 1 no.6:  
971-975 Je '65. (MIRA 18:6)

1. Fiziko-tekhnicheskii institut imeni Ioffe AN SSSR.

GUMANICHENKO, P.P., Cand Med Sci -- (diss) "Production  
physio-prophylactic devices in <sup>a</sup> complex of sanitary-  
<sup>public service</sup> ~~country~~ buildings for miners (From the experience  
of studies in coal mines in the Kuzbass)." Tomsk,  
1958, 16 pp (Tomsk State Med Inst) (KL, 29-58, 136)

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FISHMAN, G.M.; GUMANITSKAYA, M.N.

Processing of cherry plums for the manufacture of juices, beverages  
and concentrates. Kons. i ov.prom. 18 no.3:18-21 Mr '63.

(MIRA 16:3)

1. Batumskiy filial Nauchno-issledovatel'skogo instituta pishchevoy  
promyshlennosti soveta narodnogo khozyaystva Gruzinskoy SSR.  
(Georgia—Cherry plums) (Canning and preserving)

**Precipitation chromatography as a means of separating organic ingredients of pharmacological interest** S. M. Shchegolev, A. A. Andreev, L. I. Gerasimov, and G. I. Gerasimova (Moscow Pharm. Inst., 125047, Moscow, U.S.S.R.) *Izvest. Akad. Nauk SSSR Ser. Khim.* 1973 (1974) 134-137, 13 figs.

Based on the difference between the solubility of the compounds in a mixture of formic and acetic acids, the authors have developed a method of separating organic compounds of pharmacological interest. The separation is carried out by means of forming a precipitate with aluminum chloride in the presence of a precipitant. The precipitate is washed with water, dried, and then extracted with acetone, evaporated, and the residue is separated on a thin-layer plate. The compounds of pharmacological interest are separated by a single layer. The reagents, the plates, stand out as dark strips on a light background. The method was applied to the separation of salts of boric, citric, oxalic, carbonic, and tartaric acids with aluminum as carrier. These salts form colored spots with Cu and noncolored with Ba. However, after more than 2 acids are present the zones cannot be distinguished from each other. After 25-30 hrs. when crystallizing has ended, the compounds Cu, Co, and Fe salts can be separated into the end of barbitural as a precipitant and benzoic as carrier. NH<sub>4</sub> borate and silicon gel as carrier make possible the separation of Cu, Cr, Co and Al, Fe, Cr and Co. Amantadine and Urotropin can be sep'd with the aid of CuCl<sub>2</sub>·2H<sub>2</sub>O and Al<sub>2</sub>O<sub>3</sub> as carrier. On the other hand by using aspartagine or Urotropin as precipitant it is possible to sep. Pb and Cu, Cu, Pb, and Fe can be sep'd with aspirin as precipitant and Al<sub>2</sub>O<sub>3</sub> with CuCO<sub>3</sub> as carriers. The quality of the chromatogram depends on the concn. of the solutions, of the precipitant in the carrier, nature of the carrier, and width of the column. Time is also a factor helping to make the spots stand out more distinctly. A. B. Mikhlin.

GUMANOV, L.I.; NOZDROV, V.I.; KUMAROVA, S.P.

Mutagenic effect of nitroacetylurea on *Antinomycin* (1964)  
(*Streptomyces spheroides*). Dokl. AN SSSR 160 no. 11 p. 1906  
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1. Institut khimicheskoy fiziki AN SSSR. Submitted August 21,  
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GUMANOV, Ye.

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no.22:38-41 N '60. (MIRA 14:1)

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GUMANSKIY, B.M., prof.; KOMAROV, N.S., dots.; NIKOLAYEV, B.A.,  
kand. tekhn. nauk; SHAROBAYKO, T.N., red.

[Concise manual on geological field work] Kratkoe rukovodstvo  
po provedeniiu uchebnoi geologicheskoi praktiki; uchebnoe po-  
sobie. Leningrad, Leningr.in-t inzhenerov zheldro.transp.,  
1961. 61 p. (MIRA 15:5)  
(Engineering geology--Study and teaching)

GUMATONIJ, J.

Journal of the Iron and Steel Inst.  
June 1954  
Properties and Tests

Ultrasonic Testing of Forgings and Castings. V. Blazek, J. Koblavsky, J. Gumatoni, P. Schler, and K. Blonak. (Strojovnik, 1953, 8, (10), 744-751). [In Czech]. An account is given of the use of ultrasonic equipment of the transmission-type "Ultrasonal" (Belgian) and of the reflection-type "Hughes II B" (British) in Czechoslovak heavy industry, and of research on the use of ultrasonics for detecting flaws in castings and forgings, carried out in Czechoslovakia. Flaws as revealed on the cathode-ray screens are shown and analysed. Comparative tests, using both types of detector, showed that in the case of heat-treated pieces with machined surfaces the reflection detector gave the most accurate information as to size and position of defects, whilst the transmission method was more advantageously used with steel and iron castings.

GUMANSKIY, J.

✓ The use of Radioactive Isotopes for Thickness Gauging. M. G.  
J. Gumanskiy. (Hutnické Listy, 1954, 6, Dec., Supplement  
42-43). (In Czech).

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Learning about the Transitional Types of JAAI-CL Motors, etc. (To be contd.)

p. 245.

SVETLOST, Praha, Vol. 3, no. 3, Apr. 1955.

SO: Monthly List of East European Accessions, (L.A.L.), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.



SOV/137-58-8-18026

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 260 (USSR)

AUTHOR: ~~Gumanskiy, G. A.~~

TITLE: On Emission Micro-X-ray Diffraction Study of Metals (Ob  
emissionnoy mikrorentgenografii metallov)

PERIODICAL: Izv. AN UzSSR. Ser. fiz. -matem. n., 1957, Nr 3, pp 27-37

ABSTRACT: The relationship of the secondary emission of electrons (EE) of Bi, W, Sn, Ag, Se, Fe, and Al with the atomic number of the emitter  $Z$  was studied on cylindrical specimens 5 mm in diam and 3 mm high. An X-ray tube with a W anode served as the source of radiation; the radiation was filtered by complex heavy and light metal filters. It was established that EE excited by X-ray radiation with an effective wave length is not a simple function of  $Z$ . Electrons with an energy  $E_e > 30$  kev are photo-electrons and fast compton-electrons. For elements with low  $Z$  the fast component does not guarantee the resolution of elements according to the intensity of the radiation. The slow component of EE ( $E_e < 30$  kev) is composed of compton-electrons and slow photo-electrons (SP). SP emitted by heavy elements are principally K-electrons. SP afford the resolution of elements on

Card 1/2

SOV/137-58-8-18026

On Emission Micro-X-ray Diffraction Study of Metals

X-ray micro-diffraction pictures. The secondary characteristic radiation has practically no effect on the contrast of the X-ray micro-diffraction pictures. Photometric analysis permits the resolution of elements with  $\Delta Z \geq 4$  when the X-ray micro-diffraction picture is taken under proper conditions. Bibliography: 20 references.

A. R.

1. Secondary emission—Analysis
2. Secondary emitters—Properties
3. X-ray diffraction analysis

Card 2/2

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54891.

Author : Arifov U. A., ~~Gumanskiy~~ G. A., Kleyn G. A., Pashinskiy S. Z., ~~Schchenkov~~ S. N.

Inst : Not given.

Title : The Effect of Gamma Rays on the Live Chrysalides of the Mulberry-Feeding Silkworm.

Orig Pub: Dokl. AN UzSSR, 1957, No 4, 9-12.

Abstract: The cocoons with live pupae of the breed Soviet Baghdad were subjected to gamma irradiation (source Co<sup>60</sup>, intensity 15 curies) with doses of 2 to 700 thousands r. With the increase of the doses of irradiation, the death rate of the pupae was augmenting. Irradiation with a dose of 240 thousands r. was destroying all 5-day old pupae and the irradiation with a

Card 1/2

69

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54889.

Abstract: white, cocoons emit an intense blue-violet luminescence. The presence of the cocoons of yellow luminescence among the White Cocoon breeds and their hybrids constitutes an undesirable trait in the breeds and their crosses. The yellow pigment disappears in the process of the production of the tissue, but in dyeing the tissue becomes striped. Luminescent analysis may be used at breed-research stations for the purpose of evaluation of the qualities of the new White Cocoon breeds.

Card 2/2

GUMANSKIY, G.A., Cand Phys-Math Sci -- (diss) "Emission ~~Micro~~radiography of Metals." Tashkent, Pub House of Acad  
Sci of UzSSR, 1958, 8 pp. (Acad Sci of UzSSR, Phys Tech  
Inst), 150 copies.  
(KL, 41-58, 119)

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Summary  
ARTYCH, U. A., BARNOV, V. A., GROMANSKIY, J. A., KLEYIN, G. A., KASHINSKIY, J. D.,  
TKHELIDZE, L. M., TSETSKHLADZE, T. V., CHEKIDZE, T. L., and SHENKOV, J. N.

"Treatment of Silkworm Cocoons by Radiation,"

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic  
Energy, Geneva, 1 - 13 Sept 58.

ARIFOV, U.A.; GUMANSKIY, G.A.; KLEYN, G.A.; PASHINSKIY, S.Z.; SHCHENKOV, S.N.

Physical and technological properties of silkworm cocoons  
killed by  $\gamma$ -rays. Izv. AN. Uz. SSR. Ser. fiz.-mat. nauk  
no.3:5-9 '58. (MIRA 11:10)

1. Fiziko-tehnicheskiy institut AN UzSSR.  
(Silkworms) (Gamma rays--Industrial application)

Gumanskiy, G.A.

1957/2113

TRANSLATION

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Radically sovetskikh uchenykh; polucheniye i primeneniye izotopov (Reports of Soviet Scientists; Production and Application of Isotopes) Moscow, Atomizdat, 1959. 368 p. (Series: Isa: Trudy, vol. 6) 8,000 copies printed.

Eds. (Title page): G.Y. Fudymov, Academician and I.I. Vorobey, Corresponding Member, USSR Academy of Sciences; Ed. (Inside book): Z.D. Andreyenko; Transl. Ed.: Z.D. Andreyenko.

NOTE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy to peaceful uses; for professors and graduate and undergraduate students of higher technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.

CONTENTS: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 12 reports on: 1) methods for the production of stable radioisotopes; 2) methods for the production of isotopes for research; 3) research results obtained with the aid of isotopes in the field of chemistry, metallurgy, medicine, biology, agriculture, and 4) dosimetry of ionizing radiation. Volume 6 was edited by: S.Y. Levitskiy, Candidate of Medical Sciences, and G.Y. Fudymov, Academician. See Sov/201 for titles of volumes of the set. References appear at the end of the articles.

28. Zhukov, V.I., S.I. Ruznetsov, and S.Y. Tsvetkov-Rozovsky. Radioactive Isotopes for Solving Problems in Microbiology (Report No. 2317) 197
29. Andrey, G.I. Bombardment Phenomena in the Lateral Cloud (Report No. 2300) 197
30. Spitskiy, I.A. (Inceased). Sulfer Tracer Penetration of the Skin, Its Isolation in the Albumen of the Host, and Its Secretion from the Organism of the Animal (Report No. 2314) 194
31. Artyev, V.A., I.D. Artyevskiy, V.A. Artyev, G.A. Gusevskiy, G.A. Klayn, S.I. Pashitskiy, L.M. Tikhonov, I.Y. Tsvetkovskiy, V.A. Tikhonov, and S.I. Pashitskiy. Radiation Killing of Cocci of the Melibacter-feeding Silences (Report No. 2321) 192
32. Boris, B.A., and L.Y. Melitskiy. Studying the Effect of Ionizing Radiation on the Proteolysis of Potato Tubers with Respect to Yearlong Storage (Report No. 2313) 193

GUMANSKIY, G.A.; BALASHOV, V.N.; ZEMAN, Ya.N.

Using emission radiography for studying the paragenetic relationship between minerals and the composition of ores containing elements with a high atomic number. Geol. rud. mestorozh. no.5:123-124 S-O '60. (MIRA 13:10)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent.  
(Radiography) (Mineralogy)



GUMANSKIY, G.A.

Some properties of nonsaturated ionization chambers. Nauch. trudy  
TashGu no.221.Fiz. nauki no.21:163-175 '63. (MIRA 17:4)

GUMANSKIY, G.A.; SKVORTSOV, V.V.

Pulsed high-frequency ion source with impact excitation. Nauch.  
trudy TashGu no.221.Fiz. nauki no.21:180-183 '63. (MIRA 17:4)

ACCESSION NR: AR4022433

S/0058/64/000/001/A027/A027

SOURCE: RZh. Fizika, Abs. 1A259

AUTHORS: Gumanskiy, G. A.; Panfilov, L. K.

TITLE: Pulse-height analyzer with photographic recording

CITED SOURCE: Nauchn. tr. Tashkentsk. un-t, vy\*p. 221, 1963, 176-179

TOPIC TAGS: pulse-height analyzer, photographic analyzer output, linear amplifier, square wave oscillator, synchroscope, pulse ionization chamber, uranium Alpha spectrum

TRANSLATION: A simple pulse-height analyzer with photographic recording is described. Factory type instruments were used where possible in the development of this analyzer. The analyzer consists of a DM linear amplifier, a square-wave pulse shaper (GI-2A oscillator), 25I synchroscope, UIP power supply, and a photographic camera.

Card 1/2

ACCESSION NR: AR4022433

Each investigated pulse is represented on the synchroscope screen by a horizontal line, the height of which relative to some initial line is proportional to the pulse amplitude at the input. During the measurements, the synchroscope screen is photographed continuously on a single photographic plate. The investigated spectrum is obtained by photometry of the developed plate. The analyzer described can be used in conjunction with a pulse ionization chamber to investigate the alpha spectrum of a natural mixture of uranium salts. L. S.

DATE ACQ: 03Mar64

SUB CODE: PH, PG

ENCL: 00

Card 2/2

ABINOV, M.A.; GUMANSKIY, G.A.; SEREBRO, Ye.D.

Pulse accelerating tube. Nauch. trudy TashGU no.262 Fiz. nauk  
no.22-87-91 '64. (MIRA 18:5)

1. SHKAPLIN, S. Ya.: KOSHEVOY, N.A.: QUINTON, A.A. (and others)
2. USSR (600)
4. Karakul Sheep
7. Principles in developing and caring for the flock on state karakul farms.  
Kar. i zver. 5 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

GUMANYUK, M.I., inzh.; TARASEVICH, L.I., inzh.

Preventing the overlapping of ropes in mine hoists caused by the  
sticking of the bucket. Bezop.truda v prom. 6 no.4:24-25 Ap  
'62. (MIRA 15:5)

(Mine hoisting--Safety appliances)

S/123/60/000/010/005/011  
A004/A001

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 10, p.124,  
# 49774

AUTHOR: Gumanyuk, M.N.

TITLE: Utilizing Ultrasonic Waves in Technological Processes

PERIODICAL: Byul. tekhn.-ekon. inform. (Sovnarkhoz Khar'kovsk. ekon. adm. r-na),  
1958, No. 1, pp. 26-31

TEXT: As a result of works in the field of using ultrasonic waves in technological processes, the Konotopskiy zavod (Konotop Plant) "Krasnyy metallist" has manufactured a number of ultrasonic generators with a frequency range of 200 to 800,000 cps and a power range of 200 w to 10 kw. The electric circuits of the generators are presented. Ultrasonic drilling machines with a power range of 150 w to 1 kw for the machining of brittle and hard materials have been produced. The author established the great efficiency of ultrasonic cleaning of components prior to electroplating. The application of ultrasonics of an intensity of 0.5 - 1 w/cm<sup>2</sup> for nickel plating makes it possible to increase the current up to 8 amp/dm<sup>2</sup>. At a current density of 3-4 amp/dm<sup>2</sup> a sur- ✓

Card 1/2



S/123/60/000/010/005/011  
A004/A001

Utilizing Ultrasonic Waves in Technological Processes

face finish is obtained which does not require any further treatment. Also the intensification of zinc plating is being investigated. Tinning of the ends of aluminum wiring is effected within 2-3 sec by a torch fitted with an ultrasonic head. The soldering of cavities in aluminum castings is carried out within 10-20 sec. There are 8 figures. ✓

B.I.A.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

YANCHUK, G.M., kand.tekhn.nauk; GUMANYUK, M.N., inzh.

Magnetoelastic elements for automatic control systems in coal  
mining. Ugol' Ukr. no.6:32-34 Je '60. (MIRA 13:7)

1. Konotopskiy zavod "Krasnyy metallist."  
(Automatic control--Equipment and supplies)  
(Coal mines and mining)

GUMANYUK, M.N., otv. red.; MATVEYEV, M.P., red.; D'YACHENKO, I.M.,  
red.; GUSAROV, K.F., tekhn. red.

[Automatic control in the coal and metal mining industries;  
materials of a scientific technological conference] Avtoma-  
tizatsiia v ugol'noi i gornorudnoi promyshlennosti; materialy  
nauchno-tekhnicheskoi konferentsii. Kiev, Gostekhizdat USSR,  
1961. 230 p. (MIRA 15:7)

1. Nauchno-issledovatel'skaya laboratoriya zavoda "Krasnyy  
metallist" (for Gumanyuk).  
(Coal mines and mining) (Mining engineering) (Automatic control)

GUPANYUK, M.N., inzh.

Ultrasonic pick-up for remote control detection of coal and rock.  
Ugol' Ukr. 5 no.11:37-39 N '61. (MIRA 14:11)

1. Institut avtomatiki Gosplana USSR.  
(Coal mines and mining)  
(Ultrasonic waves--Industrial applications)